Core 02-V1 (3.3% compaction) **Depth Interval** 330 **0-20** Modern marsh peat 340 10 20-38.5 Peaty mud, clayey silt, black, many f. to med. roots, few coarse roots, 350 20 undecomposed, ~20% clay, lower contact over 20 mm. 360 30 38.5-52 Peaty mud, clayey silt, very dark brown, few f. and med. roots, trace coarse roots, very few v.f. roots, massive, ~15% clay, 40 ~10% peat, lower contact over 4 mm. * 50 380 Peaty mud, clayey silt, dark grey brown, common f. roots, more roots than above, massive, lower contact over 1 mm. 60 390 Peat, dark reddish brown, well decomposed, common f. and v.f. roots, mineral component silt, no significant odor, lower contact over 2-3 mm. 70 400 44.44 1 **82-92.5** Mud, Silt loam to silty clay loam, dark 410 80 gray, trace v.f. sand, massive, very few v.f. roots, very few med. peat fragments, pocket of coarse plant fragments between 90 420 82 and 84 cm, lower contact over 1 mm. Peat, dark reddish brown, contains seeds at 94 cm., very well decomposed, ~70-80% organics, few f. roots, very few v.f. 430 roots, common coarse plant fragments, massive, mineral component silt, lower contact over 10 mm. 110 440 120 450 125-130 Mud, silt loam, dark olive brown, micaceous, very few v.f. roots, trace v.f. sand, <10% clay, lower contact over 2 130 460 130-135 Very fine sand, gray, clean, single grain supported, micaceous, well sorted, similar to beach sand, lower contact over 2 mm. B.O.C. 470 135-139 5 150 Sandy mud, sandy silt loam, dark brown, massive, very few v.f. and f. roots, lower contact over 10 mm. 160 139.5-181 Loamy sand, dark gray, sand is very fine grained, clean, micaceous, massive, faint color mottles, no roots, contains 1-2 cm thick dark brown mud laminae at 169, 172.5, and 178.5 cm, lower contact over 180 181-204 Mud, clayey silt, dark olive brown, massive, trace coarse peat fragments, trace v.f. random roots, micaceous, ~30% 190 organics, ~15% clay, 5 mm thick v.f. grained, clean, gray sand layer at base, lower contact over 2 mm. 200 Mud, silty clay loam, dark olive brown, massive, trace v.f. random roots, trace pebbles up to 1 mm, strong odor, more organics than above, ~50% organics, ~25% clay, pebbly stringer of sand at 229, less mica than above, lower contact over 5 mm. 220 230 240 Mud, Silty clay loam w/ sand, dark olive brown, slight odor, massive, ~20 % organics, ~25% clay, ~5% sand grading downward to ~20% sand at base of unit, trace v.f. roots, lower contact over 5 mm. Sand, gray, massive, above 261.5 cm sand is coarse w/ pebbles up to 3 mm, below 261.5 cm, sand is fine grained w/ trace coarse clasts, no roots, lower contact over 5 mm. 264-271 Loamy sand, dark gray to dark olive gray brown, faint organic odor, v.f. grained sand, common v.f. roots, massive, lower * contact over 2 mm. 290 271-300 Silt loam to silt clay loam, micaceous, common v.f. roots, massive, no odor, ~10% decomposed organics, trace v.f. 300 sand, pocket of gray clean v.f. to f. sand at top of unit, lower contact over 5-10 A 310 300-318 × 4 Peaty mud to muddy peat, silty clay loam, **->** massive, dark olive brown, more organics than above, ~40% organics, common v.f. to f. roots, lower 10 cm more peat than 1

Figure 7. Detailed stratigraphic descriptions for vibra-cores 02-V1 and 02-V2. The location of buried marsh soils as described in text are numbered and shown on the right side of core.

above (muddy peat), strong odor, ~50% organics, lower contact over 5 mm.

320

330

Description

318-332

332-346

346-358

358-372

372-392

392-405

436-447

over 5 mm.

*

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Organic peaty mud, clay loam, less peat than above patchy pockets of gray mud, black mud and brown

mud, ~25% clay, common v.f. roots, common coarse plant fragments, ~ 30% organics, lower contact over

332-346
Peat, slightly muddy, dark brown, highly compressed, many v.f. roots, fibrous, moderately decomposed, moderate odor, ~60% organics, ~20% clay, mineral component silt clay loam, lower contact over 5 mm

Peaty mud, clay loam, black, patchy f. to v.f. sand, massive, pocket of clean micaceous sand

between 351 and 356 cm, lower

Muddy peat, slity clay loam, dark brown, common med. plant

fragments, appears matted, fibrous, compressed, no mica, ~50 60% organics, ~20% clay, lower contact over 2 mm.

Peaty mud, silty clay loam, olive gray brown, massive to weakly laminated, ~30-40% organics, few

f. roots, many v.f. roots, common med. plant fragments, ~20% clay, trace mica, plant fragments

concentrated in <5mm thick mats, 2 mm thick v.f. sand laminae at 382 cm, lower contact over 5 mm.

Mud, clay loam w/ sand and trace

gravel, gray to olive gray, micaceous, ~30% clay, contains ~10% med. sand, concentration of

med. sand between 399 and 401 cm, lower contact over 3-4 mm.

Loamy sand and gravel, gray, sub-angular to sub-rounded granitic

gravels up to 3 mm, trace plant fragments, few v.f. roots, single grain supported in places, interpreted as an alluvial channel deposit, lower contact over 2 mm.

Silty clay loam w/ sand, dark gray brown, massive, sand is f. grained sub-angular quartz, ~25% clay, trace v.f. roots, trace med. plant fragments, no odor, lower contact

Sandy clay loam, dark gray brown, massive, similar gravels as above but more abundant, ~15-20% clay, gravels make up ~5% of unit, lower contact over 2-3 mm.

456-470 Clay, black, reduced bluish gray patches, ~35-40% clay, few med. to coarse plant fragments, ~10-15% sub-angular gravels up to 1 cm, interpreted as Pleistocene alluvial fan soil, bottom of core at 470 cm

contact over 2 mm.

0-15 Modern marsh peat

Loamy sand, tanish gray, v.f. to f. sand, micaceous, faint orange mottling, common f. to med. roots, < 1 cm thick brown peat laminae at 18, 20, and 27 cm, color

decayed humified peat fragments, strong odor, ~ 25% organics, ~ 10-15% clay, trace to few f. roots, common f. to med. horizontal rhizomes, no mica, lower contact over 3 mm.

loam, interbedded layers of black and dark brownish gray, black layers have larger mineral component, abundant v.f. horizontal roots, common f. vertical roots and horizontal rhizomes, massive to weakly bedded, no mica, 1 cm thick peat beds at 51, 63, and 69 cm, similar to unit above, lower contact over

72.5-135.5

Peat, dark reddish brown, horizontally matted, ~70% organics, moderately decomposed, abundant v.f. random roots, few to common med, rhizomes, trace sand, trace coarse rhizomes, strong odor, mineral component is silt, 1 cm thick v.f. grained gray sand laminae at 75.5 cm, below 92 cm peat is well decomposed w/ velvety structure, and trace sand grains, lower contact over 1 mm.

no mica, organic odor, trace f. vertical rhizomes, trace v.f. sand, lower contact over 1 mm.

decomposed, velvety structure, common v.f. random roots, common f. rhizomes, organic odor, mineral component is silt. lower contact over 1 mm.

gray, massive to weakly laminated, single grain supported, micaceous, ~ 10% silt, ~10% coarse to med. sand, dominantly fine sand, trace v.f. random roots, few coarse horizontal rhizomes, upper 4 cm has more silt. lower 6 cm is interbedded w/ 2-3 mm thick dark brown mud laminae, lower contact over 1-2 mm.

ndud, silt loan, dark olive brown, organic odor, massive, trace mica, ~ 15% clay, trace f, sand, common f. random roots, upper 4 cm slightly more organic, lower contact over 3 mm.

similar to above but slightly grayer and more sand, <10% sand, micaceous (<5%), massive, few v.f. random roots, trace coarse granitic clasts up to 2 mm, slight increase in sand content towards base. lower contact over 3 mm.

slightly darker than above, organic smell, massive, similar to above but more sand ~10% v.f. sand, trace coarse sand, trace mica, ~15% clay, common v.f. random roots fe contains coarse wood up to 2 cm long, contains rare seeds, lower contact over 2 mm.

310-321

Mud, silt loam, dark brown, slight organic odor, ~15% clay, more organics than above (~15%), massive, micaceous, trace v.f. roots, contains a pocket of clean v.f. sand at 320 cm, lower contact over 10 mm.

300

310

320

330

(3 or 4)

321-390

Mud_silt loam to silty clay loam interbedded dark gray and dark brown mud, less organics than above, micaceous, trace v.f. and f, roots, Dark gray layers are silty clay loam w/ ~25% clay, concentration of 3 mm to 3 cm thick brown peaty mud laminae between 346 and 355 cm, an olive brown muddy peat lies between 373 and 377 cm (well decomposed w/ ~50-60% organics), 3 cm thick brownish gray sand at 379.5 cm, 2 cm thick dark brown muddy peat at base of unit, possible relative sea level rise indicated by contacts at 346, 373, and 388 cm, lower contact over 2 mm.

Gravelly clay loam to gravelly silty clay loam, dark bluish gray, massive, granitic clasts up to 5 mm, very few f. roots, interpreted as Pleistocene alluvial fan soil, bottom of core at 461 cm.

Core 02-V2 (3.8% compaction) Depth Interval 340 (5) 10 15-31.5 360 20 becomes more gray below 27 cm, lower contact over 1 mm. 370 30 31.5-44 * ** Peaty mud, Silt loam, black, massive, contains coarse 6 380 40 # * W \$ 7 390 50 * 44-72.5 Peaty mud, silty clay loam to silt 400 60 XXXXXX 410 70 420 80 90 430 1 440 100 450 110 120 460 B.O.C. 461 135.5-149 130 Mud, silt loam, dark olive brown, trace v.f. random roots, massive, 140 149-179 Peat, dark reddish brown, well 150 160 2 179-198 Mud, silt loam, dark olive brown, organic odor, ~5% mica grains, massive, trace v.f. sand, ~ 10% organics, ~10-15% clay, lower contact over 2 mm. 170 180 198-216 Sand to Sandy silt loam, dark 190 200 210 Mud. silt loam, dark olive brown. 220 230 246-279 Sandy silt loam, dark olive brown, 240 250 Sandy silt loam, dark olive brown. 260 270 280 290

1506 Pillar Point